BRUHAT BENGALURU MAHANAGARA PALIKE
YELAHANKA ZONE

NAME OF WORK **: *Improvements to Main roads and Cross roads at 1st main Shivanahalli and surrounding areas in kempegowda ward no-01.***

Estimate Cost Rs. 49.00 Lakhs

Sl No.	Description of Item	Unit	No.	L	B	D	Qty.	Rate	Amount
1	KSRRB 300 - Excavation for road, drains and similar works - KSRRB 300-1. Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications. MORTH Chapter 3 (P.141/I.19.1) SR 2018-19.								
		Cum							
	service station roads		1	120.00	4.50	0.20	108.00		
			1	145.00	5.70	0.20	165.30		
			1	28.00	5.50	0.20	30.80		
	desilting		1	145.00	0.50	0.50	36.25		
							340.35	137.80	**46900.00**
	Basic Rate	130.00							
	Area Weightage @ 6%	7.80							
	Total	**137.80**							
2	KSRB 2-2.1 : Earthwork excavation for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in ordinary soil not exceeding 1.5 m. in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50 m. after breaking of clods complete as per specifications. specification. No. KBS 2.1(a) / 2.3.5 SR 2018-19								
		Cum							
	New Drain		2	120.00	1.05	0.90	226.80		
	-		1	28.00	1.05	0.90	26.46		
	Culvert		1	8.00	1.65	1.20	15.84		
							269.10	**316.94**	**85289.00**
	Basic Rate Rs	299.00							
	Add Area Weightage @ 6%	17.94							
	Total	**316.94**							
3	KSRB4.1.3: Providing and laying position plain cement concrete of Mix 1:4:8 with OPC cement @180Kgs, with 40mm and down size graded granite metal coarse aggregates @ 0.85 cum and fine aggregtes @ 0.57 cum machine mixed , concrete laid in layers not exeecding 15 cms, thick, well compacted , in foundation , including cost of all materials, Labour , HOM of Machinery, Curing complete as per Specifications. Specifications No. KBS 4.1, 4.2 (P12/4.3). SR 2018-19								
		Cum							
	service station roads		1	120.00	4.50	0.15	81.00		
			1	145.00	5.70	0.15	123.98		
			1	28.00	5.50	0.15	23.10		
	New Drain		2	120.00	1.05	0.15	37.80		
			1	28.00	1.05	0.15	4.41		
	Culvert		1	8.00	1.65	0.15	1.98		
							272.27	5408.12	**1472442.00**
	Basic Rate	5102.00							
	Area Weightage @ 6%	306.12							
	Total	**5408.12**							

Sl. No.	Description of Item	Unit	No.	L	B	D	Qty.	Rate	Amount
4	Providing and laying Plain /reinforced cement concrete for side drains wall and bottom thickness 15cm using M20 nominal mix concrete with OPC cement at 300kg with 20mm and down size granite metal coarse aggregate at 0.69 cum and fine aggregate at 0.43 cum machine mixed well compacted for walls at bottom including centring shuttering cost of materials HOM of machineries curing etc completeexcluding cost of steel as per MORTH specification No.1500,1700,2200 Page No 271 Ite mo 37.59.2 SR 2018-19 (wall and bottom thickness 15cm.								
		Cum							
	Bottom raft								
	New Drain		2	120.00	0.90	0.15	32.40		
			1	28.00	0.90	0.15	3.78		
	Culvert		1	8.00	1.50	0.15	1.80		
	Side wall								
	New Drain		4	120.00	0.15	0.75	54.00		
			2	28.00	0.15	0.75	6.30		
	Culvert		2	8.00	0.25	0.80	3.20		
						Total	**101.48**	7070.20	**717484.00**
	Basic Rate	6670.00							
	Add Area Weightage @ 6%	400.20							
	Total	**7070.20**							
5	KSRB 4.9.2:providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost pf materials, labour, HOM of machinery complete as per specifications. Specification No. TMT bars Fe 500 KBS 4.6.3 Page No. 18/ Item No. 4.46/ PWD SR 2018-19								
		Tonne							
	for Drain 50kg/cum		1	96.48	50.00		4824.00		
	for culvert 60kg/cum		1	5.00	60.00		300.00		
	Total						**5124.00**		
							5.12	75223.96	**385448.00**
	Basic Rate	70966.00							
	Add Area Weightage @ 6%	4257.96							
	Total	**75223.96**							
6	Supplying and fixing **precast** rainforced concrete slab 10cm thick including cost of reinforcement as per design and drawing material cost, transportation, hire charges of machinery, machine cutting the vertical face to get plain even surface stc., complete with all leads and lift conveyance charges, labour charges inclusive of cost of all materials.(Drain covering slab)								
		Sqm							
	New Drain		2	120.00	0.75		180.00		
			1	18.00	0.75		13.50		
						Total	**193.50**	2337.00	**452210.00**
	Data rate	2337.00							
7	Providing precast slab of 250 mm thick including cost of all materials, labour, curing,transportation,loading ,unloading,etc.,complete as per the direction of engineer in charge-								
		Sqm							
	Culvert		2	8.00	1.50		24.00		
							24.00	5418.00	**130032.00**
	Data rate	5418.00							

Sl. No.	Description of Item	Unit	No.	L	B	D	Qty.	Rate	Amount
8	KSRRB M600-6: cement concrete pavement, construction unreinforced plain cement concrete pavement, thickness as per design, over a prepared sub base with 43 grade cement or any other type as per clause 1051.2.2M20/M30 at 380/450 kg per cum, coarse and fine aggregate conforming to IS: 383, maximum size of coarse aggregate not exceeding 25mm, mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including leveling the form work as per drawing,), spreading the concrete with shovels, rackers compacted using needle, scred and plate vibrator and finished in a continuous operation including provision of contraction, expansion, construction and longitudinal joints, joint filler, separation membrane, selant primer, joint sealant, admixtures as approved curing compound, finishing to lines and grade as per drawing complete as per specification M30(at 360kg per cum coarse aggregate @ 0.69cum and fine aggregare @ 0.46cum), , No. 174/ Item No. 22.6.1) SR 2018-19								
		Cum							
	service station roads		1	120.00	4.50	0.125	67.50		
			1	145.00	5.70	0.125	103.31		
			1	28.00	5.50	0.125	19.25		
							190.06	5210.96	**990408.00**
	Basic Rate	4916.00							
	Area Weightage @ 6%	294.96							
	Total	**5210.96**							
12	KSRRB M100-1 Loading and Unloading of Stone Boulder / Stone aggregate /sand/kaner/ Moorum KSRRB M100-1 Placing tipper at loading point, loading with front end loader, dumping, turning for return trip, excluding time for haulage and return trip complete as per specifications MORTH -100/ Chapter 1 (Page No.133/ Item No 17.1) SR 2018-19								
		Cum							
				Qty Vide Item No.1+2			**609.45**	87.56	**53361.00**
	Basic Rate for loading and unloading	57.00							
	Basic Rate for Haulage upto 8.00 k.m =1.28 X 2.50 X 8	25.60							
	Basic Rate	82.60							
	Area Weightage 6%	4.96							
	Grand Total	87.56							
							Sub total		**4333574.00**
4	GST of 12% as per Govt Letter No PWD 65 RDF 2017 Dated 11-10-2018								**520028.88**
5	DPR and PMC charges 1%								43335.74
	Miscellaneous and unforeseen charges	Ls							3061.38
							Total Ammount Rs.		**4900000.00**

(Rupees Fourty Nine Lakhs only)

RTIFICATE

1) The site has been inspected and the work is found to be necessary.
2) The rates adopted are as per PW,P IWTD SR of 2018-19
3) The provisions were made in this estimate are necessary and adequate.
4) The area comes under the Bruhat Bengaluru Mahanagara Palike Limits.
5) This work is not repeated in any other programs or Grants

Assistant Engineer
Ward No.1

Executive Engineer
Yelahanka-Division
B.B.M.P

Assistant Executive Engineer
Yelahanka Sub-Division
B.B.M.P

Administrative Approval

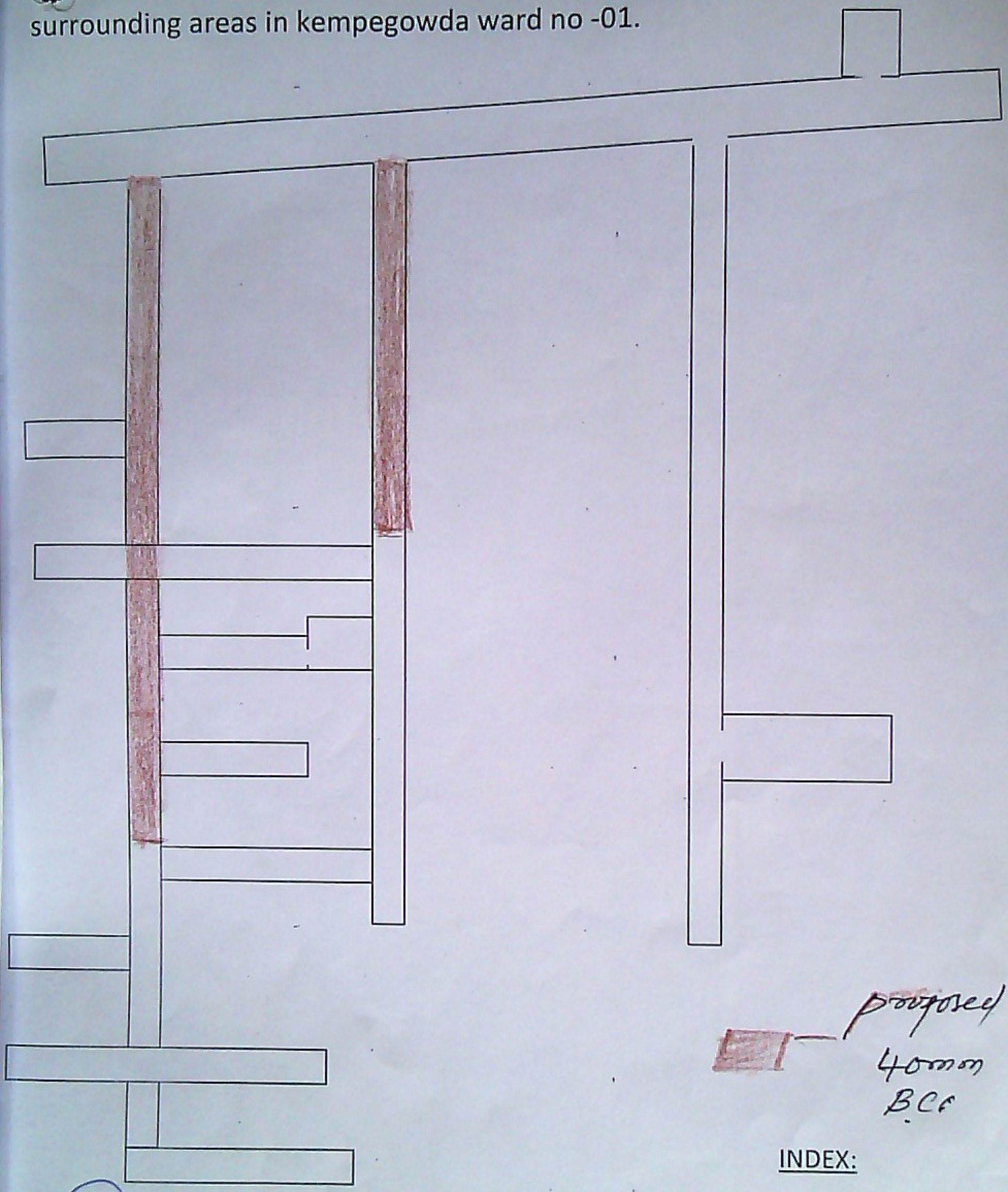
Accorded For RS 49.00 lacs only
Head of A/C P-3443
CER NO : AS1.60/18-19 **Dt:** 07.12.18

TA CE (YNK)

Technical Sanction
Accorded For RS 49.00 lacs only
Head of A/C P-3443
CER NO TS/123/18-19 Dt 07.12.18

TA CE

Name of work : Improvements to roads and drains at 2nd main shivanahalli and surrounding areas in kempegowda ward no -01.



Proposed 40mm B.C

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BRUHAT BANGALORE MAHANAGAR PALIKE
WARD: 1- KEMPEGOWDA WARD

150 - YELAHANKA AC

NOTIFICATION NO. UDD 59 MLR 2009 DATE. 15.07.09

BRUHAT BENGALURU MAHANAGARA PALIKE
YELAHANKA ZONE

NAME OF WORK : ***Improvements to Main roads and Cross roads at 2nd main Shivanahalli and surrounding areas in kempegowda ward no-01.***

Estimate Cost Rs. **49.00** **Lakhs**

Sl No	Description of Item	Unit	No.	L	B	D	Qty.	Rate	Amount
1	KSRRB 300 - Excavation for road, drains and similar works - KSRRB 300-1. Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications. MORTH Chapter 3 (P.141/I.19.1) SR 2018-19.								
	Shivanalli cross roads	Cum	1	60.00	6.00	0.20	72.00		
			1	26.00	6.00	0.20	31.20		
			1	40.00	4.50	0.25	45.00		
			1	50.00	5.70	0.25	71.25		
			1	30.00	6.00	0.25	45.00		
			1	30.00	6.00	0.25	45.00		
			1	65.00	6.00	0.25	97.50		
			1	40.00	6.00	0.25	60.00		
			1	65.00	6.00	0.25	97.50		
			1	30.00	6.00	0.25	45.00		
			1	30.00	5.50	0.25	41.25		
			1	27.00	5.60	0.25	37.80		
							688.50	137.80	**94875.00**
	Basic Rate	130.00							
	Area Weightage @ 6%	7.80							
	Total	**137.80**							
2	KSRB4.1.3: Providing and laying position plain cement concrete of Mix 1:4:8 with OPC cement @180Kgs, with 40mm and down size graded granite metal coarse aggregates @ 0.85 cum and fine aggregtes @ 0.57 cum machine mixed , concrete laid in layers not exeecding 15 cms, thick, well compacted , in foundation , including cost of all materials, Labour , HOM of Machinery, Curing complete as per Specifications. Specifications No. KBS 4.1, 4.2 (P12/4.3). SR 2018-19								
	Shivanalli cross roads	Cum	1	60.00	6.00	0.15	54.00		
			1	26.00	6.00	0.15	23.40		
			1	40.00	4.50	0.15	27.00		
			1	50.00	5.70	0.15	42.75		
			1	30.00	6.00	0.15	27.00		
			1	30.00	6.00	0.15	27.00		
			1	65.00	6.00	0.15	58.50		
			1	40.00	6.00	0.15	36.00		
			1	65.00	6.00	0.15	58.50		
			1	30.00	6.00	0.15	27.00		
			1	30.00	5.50	0.15	24.75		
			1	27.00	5.60	0.15	22.68		
							428.58	5408.12	**2317812.00**
	Basic Rate	5102.00							
	Area Weightage @ 6%	306.12							
	Total	**5408.12**							

Sl. No.	Description of Item	Unit	No.	L	B	D	Qty.	Rate	Amount
3	KSRRB M600-6: cement concrete pavement, construction unreinforced plain cement concrete pavement, thickness as per design, over a prepared sub base with 43 grade cement or any other type as per clause 1051.2.2M20/M30 at 380/450 kg per cum, coarse and fine aggregate conforming to IS: 383, maximum size of coarse aggregate not exceeding 25mm, mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including leveling the form work as per drawing,), spreading the concrete with shovels, rackers compacted using needle, scred and plate vibrator and finished in a continuous operation including provision of contraction, expansion, construction and longitudinal joints joint filler, separation membrane, selant primer, joint sealant, admixtures as approved curing compound, finishing to lines and grade as per drawing complete as per specification M30(at 360kg per cum coarse aggregate @ 0.69cum and fine aggregare @ 0.46cum). , No. 174/ Item No. 22.6.1) SR 2018-19								
		Cum							
	Shivanalli cross roads		1	60.00	6.00	0.125	45.00		
			1	26.00	6.00	0.125	19.50		
			1	40.00	4.50	0.125	22.50		
			1	50.00	5.70	0.125	35.63		
			1	30.00	6.00	0.125	22.50		
			1	30.00	6.00	0.125	22.50		
			1	65.00	6.00	0.125	48.75		
			1	40.00	6.00	0.125	30.00		
			1	65.00	6.00	0.125	48.75		
			1	30.00	6.00	0.125	22.50		
			1	30.00	5.50	0.125	20.63		
			1	27.00	5.60	0.125	18.90		
							357.15	5210.96	**1861094.00**
	Basic Rate	4916.00							
	Area Weightage @ 6%	294.96							
	Total	**5210.96**							
4	KSRRB M100-1 Loading and Unloading of Stone Boulder / Stone aggregate /sand/kaner/ Moorum KSRRB M100-1 Placing tipper at loading point, loading with front end loader, dumping, turning for return trip, excluding time for haulage and return trip complete as per specifications MORTH -100/ Chapter 1 (Page No.133/ Item No 17.1) SR 2018-19								
		Cum							
			Qty Vide Item No.1				**688.50**	87.56	**60282.00**
	Basic Rate for loading and unloading	57.00							
	Basic Rate for Haulage upto 8.00 k.m =1.28 X 2.50 X 8	25.60							
	Basic Rate	82.60							
	Area Weightage 6%	4.96							
	Grand Total	87.56							
							Sub total		**4334063.00**
									520087.56
5	GST of 12% as per Govt Letter No PWD 65 RDF 2017 Dated 11-10-2018								43340.63
	DPR and PMC charges 1%								2508.81
6	Miscellaneous and unforeseen charges	Ls							
							Total Ammount Rs.		**4900000.00**

(Rupees Fourty Nine Lakhs only)

CERTIFICATE

1) The site has been inspected and the work is found to be necessary.
2 The rates adopted are as per PW,P IWTD SR of 2018-19
3) The provisions were made in this estimate are necessary and adequate.
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Assistant Engineer
Ward No.1

Executive Engineer
Yelahanka-Division
B.B.M.P

Assistant Executive Engineer
Yelahanka Sub-Division
B.B.M.P

Administrative Approval

Accorded For RS 49.00 lacs only
Head of A/C P3443
CER NO : AE1 61 18-19 Dt: 07.12.18

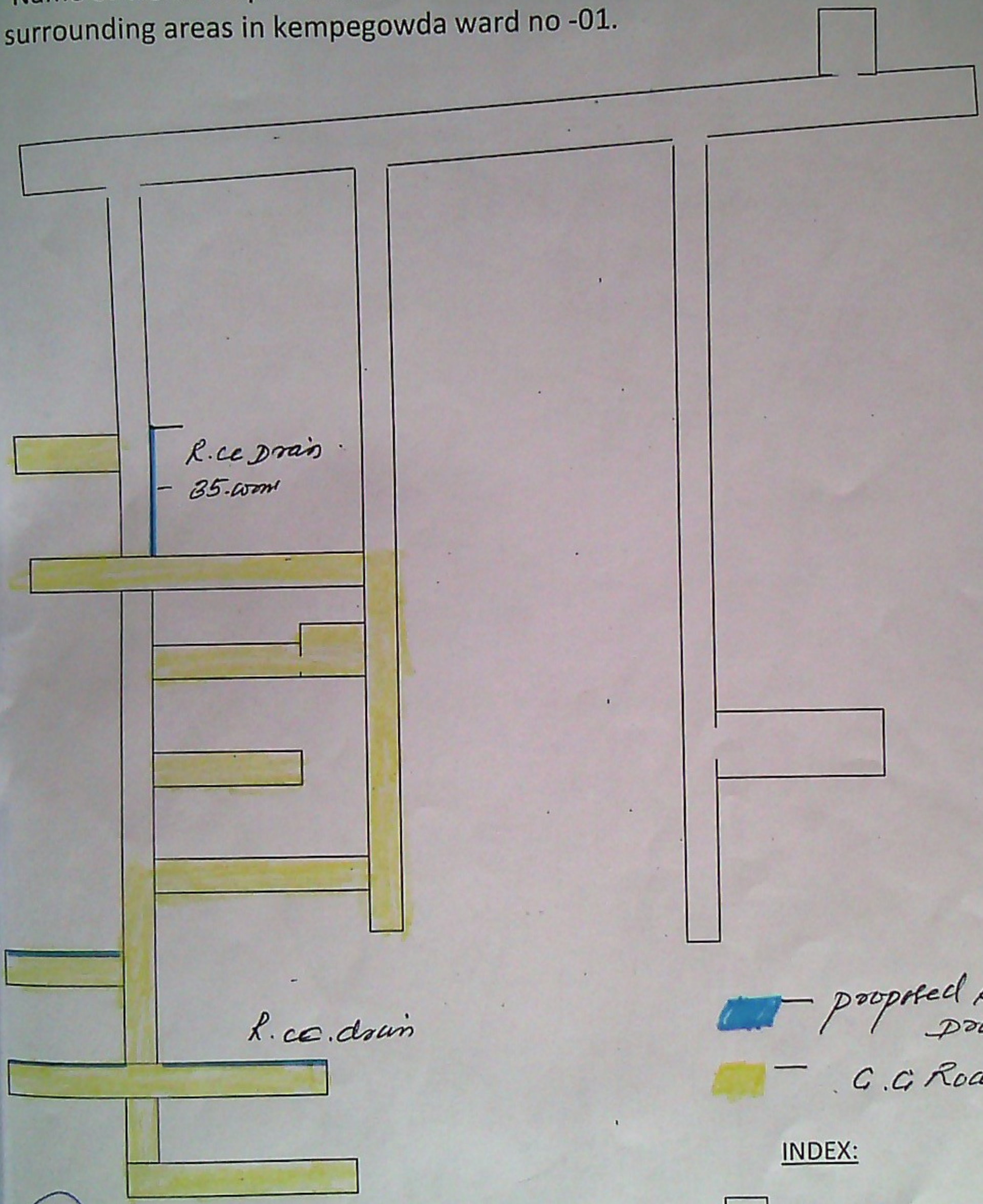
TA CE (YNK)

Technical Sanction

Accorded For RS 49.00 lacs only
Head of A/C P3443
CER NO : TS/124/18-19 **Dt:** 07.12.18

TA CE (YNK)

Name of work : Improvements to roads and drains at 2nd main shivanahalli and surrounding areas in kempegowda ward no -01.



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150 - YELAHANKA AC

BRUHAT BANGALORE MAHANAGAR PALIKE
WARD: 1- KEMPEGOWDA WARD

N

VILLAGE BOUNDARY
VILLAGE BOUNDARY
EXI. CMC WARD BND
EXI. CMC WARD BND
GOVINDAPURA
YELAHANKA AIRPORT AREA
BSF, STC YELAHANKA
BELLARY ROAD
EXI CMC WARD BND
KEB LAYOUT PHASE-I
VILLAGE BOUNDARY
RYAN INTERNATIONAL SCHOOL
POLICE TRAINING CENTRE
SAI SPRING FIELD COLONY
ALI ESTATE
VASUDEVAPURA
BSF BUS STOP
VINAYAKNAGAR
G L RAJU COLONY
CANADIAN INTERNATIONAL SCHOOL
KEMCHENAHALLI
RAILWAY LINE
MACHENAHALLI
SATYAPPA ANNIYAPPA KEMPAMMA LAYOUT
LAKE VIEW RESIDENCY
VIKAS
BANGALORE SPOKES INDIA PVT LTD
YALAHANKA KERE
VENKATALA
VENKATALA LAYOUT
VENKATAPPA LAYOUT
EXI CMC WARD BND
RAILWAY LINE
EXI CMC WARD BND
TANK LAYT
CHOWDESWARI LAYOUT
BELLARY ROAD
MARUTHI NAGAR
MARUTHINAGAR
KENDRIYA VIHAR
RAILWAY STATION
KAMAKSHAMMA LAYOUT
GHANKARENA LAYOUT
EXI CMC WARD BND
JAYANNA LAYOUT
BAZZIL ROAD
KULARPA LAYOUT
BADRANNA LAYOU
FM GOETZE PLANT
YELAHANKA
MAHESHWARE NAGAR
HOSPITAL ROAD
EAST COLONY
N.E.S MAIN RD
GANDHI NAGAR
NEHRU NAGAR
DODABALLAPURA RD
BELLARY ROAD
BELLARY ROAD BYPASS
JAKKUR ROAD
EXI. CMC WARD BND
SURABHI LAYOUT
BELLARY ROAD
RAILWAY LINE
JAKKUR ROAD
EXI. CMC WARD BND
VIDYASHILP ACADAMY SCHOOL
EXI. CMC WARD BND
EXI. CMC WARD BND
MANTRI TOWN SHIP
SHOBHA ULTIMA VILAS
LAS TEACHER LAYOUT

NOTIFICATION NO. UDD 59 MLR 2009. DATE. 15.07.09

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- PROPOSED WARD BOUNDARY
- RIVER/ DRAIN
- RAILWAY LINE
- ROAD